

SECTION 737 - INCIDENTAL ELECTRICAL WORK:

ITEM 7370200 TEMPORARY TRAFFIC SIGNALS:

Description:

The work under this item shall consist of furnishing all materials labor and equipment to Design, install, and maintain through the duration of the project a temporary traffic signal at the intersection of US XX & I-XX (Name of Project). The temporary traffic signal shall conform to all aspects of this specification, the Standard Specifications, the Standard Drawings, and the MUTCD.

The Contractor shall submit drawings for the temporary signals at the preconstruction/ partnering meeting. The drawings shall indicate the location of all equipment required as well as any details or notes necessary for construction of the signals. The design must be approved, sealed and signed by a Registered Professional Engineer.

Materials:

All materials used for the temporary signals must be determined by the Engineer to be serviceable and in good working order. The materials need not be new, except the signal lamps. All materials used must be inspected by the ADOT inspector prior to installation. This would include any replacement materials required throughout the course of the project.

Poles:

Wood poles, or steel poles with foundation at the contractors option, shall conform to the Standard Specifications. The poles are not required to be new. If the poles used by the Contractor are not new they must be inspected by the Engineer that approved the temporary signal design. The approving Engineer must provide a letter to the Department certifying the structural integrity of the poles.

Span wire, Tether wire, and Line Hardware:

Span wire, Tether wire and Line Hardware shall be of sufficient size and strength to insure load carrying qualities required based on the design submitted. The Contractor shall provide documentation of the load requirements of the span wire on the submitted design approved by a Registered Engineer.

Luminaires:

A minimum of four luminaires are required with a minimum wattage of 250 watts.

Construction Requirements:

The temporary signals shall be installed prior to removal of any existing signal equipment currently in use at the intersection of the West Kingman T.I.. The Contractor is responsible for coordination of the installation and activation of the temporary signals as it relates to any other work being done as part of this project. Any delay to the overall schedule due to the installation or modification of the temporary traffic signal is the responsibility of the Contractor and will not be grounds for time extensions or additional costs to the Department.

Maintenance of the temporary signals will be the responsibility of the Contractor. The signals shall be maintained in a proper operating condition at all times. Any damage caused by the motoring public or severe weather conditions or other acts of nature shall be repaired by the Contractor under force account. Any damage to the signals as a result of construction activities, personnel, or equipment associated with this project shall be repaired by the Contractor at no cost to the Department.

Repositioning of the temporary signals to accommodate construction activities shall be considered part of the cost of the temporary traffic signal installation. All modifications of any kind shall be through the Engineer that approved the design. All modifications shall be approved by the Engineer. Any changes to the approved temporary signals directed by the Department shall be paid by force account.

ADOT shall be notified a minimum of 10 working days prior to any signal construction at the intersection. The temporary signals shall be activated at a date and time approved by the Engineer. The signals shall not be activated on Monday or Friday. The Contractor shall have two(2) off duty Police Officers present for traffic control during the transition from existing traffic signals to temporary traffic signals. The ADOT technician will be responsible for all work in the control cabinet. The Contractor is responsible for coordinating directly with ADOT signal maintenance supervisor for assistance as it relates to ADOT technicians work in the control cabinet.

The Contractor shall provide a qualified journeyman that is IMSA level II certified to oversee all work relating to the installation of the temporary signals. If at any time it is determined that a certified electrician is not present the Engineer may issue a stop work order to the Contractor.

The installation of all signal equipment shall conform to these specifications and approved drawings, the ADOT Standard Specifications and Standard Drawings, MUTCD, and NEC, in that order.

Method of Measurement:

The temporary traffic signals shall be measured as a single complete unit of work.

Basis of Payment:

The temporary traffic signals shall be paid at the contract lump sum price which shall be full compensation for the item complete in place, including all repositioning of signal equipment as directed by the Department for the duration of the project.